Background

DLA Enterprise Data Services are provided by the Integrated Data Environment (IDE) in collaboration with its partner organizations (see below). The focus of this paper is on the capabilities and services delivered by IDE.

IDE provides a centralized data exchange environment for DLA transformational programs and helps to solve many problems commonly faced by the logistics communities of interest such as visibility of data, secure access to data, and improved data quality in terms of its validity, timeliness, and accuracy.

Partner Organizations

The key to implementing Enterprise Data Services has been partnering. Enterprise Data Services Partner organizations are listed below.

- Integrated Data Environment (IDE) - data brokering/discovery capabilities, and metadata expertise.
- Defense Logistics Information Service (DLIS) - data/metadata expertise.
- Defense Automatic Addressing System Center (DAASC) – transaction hub capabilities.
- Defense Logistics Management Standards Office (DLMSO) – business rules and standards expertise.
- Defense Information Systems Agency (DISA) – infrastructure operations.
- United States Transportation Command (USTRANSCOM) – distribution data expertise.

IDE Core Capabilities

The Data Broker provides the following capabilities:

- Visibility of data assets, via metadata, supporting discovery and reuse.
- Assured access to data by authorized users regardless of location, context, or format.
- Minimization of data latency (creation to consumption) meeting agreed-to quality of service level.
- Improved accuracy and consistency of data using authoritative sources where possible/available.

- Improved information interoperability using data management practices, Logistics data model and data dictionary, business rules, and data standards.
- Flexibility to adapt and scale to changing requirements for information services, reducing the time required to enable new interfaces.

IDE brokered more than 40 interfaces with provider and consumer systems in support of Asset Visibility (AV) which provides the warfighter with asset information for items In-Storage, In-Process, and In-Transit. The AV Program office located in DLIS is responsible for sustainment of AV capabilities. For information regarding AV, contact the AV Program office at avpmo@dla.mil .

Data Discovery. The Data Portal is the heart of DLA's data discovery capability; Release 1 went live in December 2007. It works directly with the IDE metadata repository. The repository currently contains metadata on source and target formats, business rules, and transformation logic. This empowers developers and systems analysts to search and discover relevant metadata artifacts and services available through IDE. Customers can subscribe to existing DLA data services and view interface exchanges (mappings). The next release of the Portal will include improved data dictionary development and will provide the business data associated with each data element. IDE's metadata architecture supports a federated approach to metadata that can provide access to metadata stored in distributed locations throughout DLA.

http://www.dla.mil/discoverdata

The Enterprise Service Bus (ESB) links all components, both internal and external. The ESB has

a transport layer that provides messaging capabilities and Web Services, to name a few; intelligent routing, transformation, data synchronization, distributed data access, and process automation. Additionally, the ESB serves as a gateway to systems outside the IDE enterprise, enabling the business-to-business transport of data.

IDE Customer Support

The IDE Program office follows standard processes and procedures that facilitate customer interaction. IDE services required to support a customer requirement are documented in data sharing agreements and interface control documents. These documents formalize functional and technical agreements between IDE and provider and consumer systems.

Examples of existing services provided by IDE are listed below.

Access to Master Data - On-line Representations and Certification (ORCA).
IDE provides ORCA data to EBS (procurement functionality). IDE brokers the ORCA data from the Master Data Capability (MDC) component of Enterprise Data Services, managed by DLIS. ORCA data is a part of the Contractor Master. DLA EBS buyers are the users of Contractor Master Data.

Access to DLA Supply Data

- **EBS Bulk Data.** EBS data for Back Order, Materiel Due Out, Materiel On Hand, Materiel Requisition, and Materiel Weapon Systems is brokered to the Military Services using IDE bulk data services.

- **EBS Real-Time Data.** Near real-time EBS Requisition and Stock Status data is brokered to multiple Navy and Air Force consumers systems using web services. EBS data is fused with Master Data to ensure the consuming system is receiving item data from the authoritative source.

- **Fuels Data.** IDE brokers daily inventory transactions and operational data from the BSM-Energy (BSM-E) system to multiple consumer systems including AV and Global Combat Support System - GCSS-Joint applications.

Support of DLA Business Processes

- **Enterprise Operational Accounting System (EOAS).** IDE is currently developing the brokering services required to interface DOD and Federal financial systems with EBS.

- **Army Medical Material Agreement (AMMA).** IDE interfaces with the Theater Army Medical Management Information System (TAMMIS) and the Army Standard Procurement System, Army Contracting Business Intelligence System (SPS ACBIS); providing transactional data to EBS.

Technical Solution

IDE operates at the Defense Enterprise Computing Center (DECC) in Mechanicsburg, PA. DOD and DLA data is brokered between source/provider and consumer systems using a suite of technical services supporting the integration of business processes and data sharing. The software used by IDE to deliver services: webMethods Fabric, MetaMatrix, MQServer, and Oracle.

IDE is a member of the Global Combat Support System (GCSS) Family of Systems (FoS).

Working with the IDE Program

All programs requesting or providing data through IDE should involve IDE during their solutions analysis or blueprinting phase (high level data exchange requirements have been identified). IDE works with consumer and provider systems to refine data and interface requirements, to include synchronizing program schedules and milestones. IDE has a data services request form that can be accesses via the Data Discovery Portal. All potential customers can access the Portal to view additional information about the program. Contact the IDE Program Office directly.

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